

' In re Appln. No. 10/526,073
' Amdt. dated August 15, 2006
Reply to Notice to Comply July 19, 2006

IN THE SEQUENCE LISTING

Please substitute the attached Sequence Listing
section for the originally filed Sequence Listing.

HOKAZON01 (AOYB).ST25.txt
SEQUENCE LISTING

<110> TAKARA BIO INC.
HOKAZONO, Shigekazu
UEMORI, Takashi
TANAKA, Tetsuki
KATO, Ikunoshin

<120> Thermostable RNase H

<130> HOKAZON01

<140> 10/536,073

<141> 2005-02-28

<150> JP 2002-254153

<151> 2002-08-30

<150> PCT/JP03/10727

<151> 2003-08-26

<160> 16

<170> PatentIn version 3.3

<210> 1

<211> 211

<212> PRT

<213> Archaeoglobus profundus

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20 25 30

Lys Ser Val Gly Val Lys Asp Ser Lys Lys Leu Asp Arg Arg Lys Arg
35 40 45

Glu Glu Leu Tyr Asn Ile Ile Lys Ser Leu Cys Lys Val Lys Val Leu
50 55 60

Lys Ile Ser Val Glu Asp Leu Asn Arg Leu Met Glu Tyr Met Ser Ile
65 70 75 80

Asn Glu Ile Leu Lys Arg Ala Tyr Val Glu Ile Ile Arg Ser Leu Met
85 90 95

Pro Lys Val Val Tyr Ile Asp Cys Pro Asp Ile Asn Val Glu Arg Phe
100 105 110

Lys His Glu Ile Glu Glu Arg Thr Gly Val Glu Val Phe Ala Ser His
115 120 125

Lys Ala Asp Glu Ile Tyr Pro Ile Val Ser Ile Ala Ser Ile Val Ala
130 135 140

HOKAZONO1 (AOYB).ST25.txt

Lys Val Glu Arg Asp Phe Glu Ile Asp Lys Leu Lys Lys Ile Tyr Gly
145 150 155 160

Asp Phe Gly Ser Gly Tyr Pro Ser Asp Leu Arg Thr Ile Glu Phe Leu
165 170 175

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180 185 190

Arg Trp Lys Thr Leu Lys Arg Leu Thr Thr His Thr Leu Ser Asp Phe
195 200 205

Phe Glu Val
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<213> Archaeoglobus profundus

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Ala Cys Cys Thr Gly Thr Ala Ala Thr Ala Gly Gly Cys Cys Cys Thr
35 40 45

Cys Thr Thr Gly Thr Ala Ala Thr Ala Thr Gly Cys Gly Gly Ala Gly
50 55 60

Thr Ala Cys Thr Gly Thr Gly Cys Gly Ala Thr Gly Ala Ala Gly Ala
65 70 75 80

Gly Ala Cys Cys Gly Thr Ala Gly Ala Ala Thr Ala Cys Thr Thr Gly
85 90 95

Ala Ala Gly Ala Gly Cys Gly Thr Ala Gly Gly Cys Gly Thr Thr Ala
100 105 110

Ala Ala Gly Ala Thr Thr Cys Ala Ala Ala Gly Ala Ala Gly Cys Thr
115 120 125

Gly Gly Ala Thr Ala Gly Gly Ala Gly Gly Ala Ala Gly Ala Gly Ala
130 135 140

Gly Ala Gly Gly Ala Ala Cys Thr Thr Thr Ala Cys Ala Ala Thr Ala
145 150 155 160

Thr Cys Ala Thr Ala Ala Ala Ala Thr Cys Gly Cys Thr Thr Thr Gly
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165

170

175

Cys Ala Ala Gly Gly Thr Thr Ala Ala Gly Gly Thr Ala Thr Thr Gly
 180 185 190

Ala Ala Ala Ala Thr Ala Thr Cys Thr Gly Thr Cys Gly Ala Gly Gly
 195 200 205

Ala Thr Thr Thr Gly Ala Ala Cys Ala Gly Gly Thr Thr Ala Ala Thr
 210 215 220

Gly Gly Ala Ala Thr Ala Cys Ala Thr Gly Ala Gly Thr Ala Thr Ala
 225 230 235 240

Ala Ala Thr Gly Ala Ala Ala Thr Cys Thr Thr Gly Ala Ala Gly Ala
 245 250 255

Gly Ala Gly Cys Thr Thr Ala Cys Gly Thr Thr Gly Ala Ala Ala Thr
 260 265 270

Ala Ala Thr Ala Ala Gly Gly Thr Cys Thr Thr Thr Gly Ala Thr Gly
 275 280 285

Cys Cys Thr Ala Ala Ala Gly Thr Thr Gly Thr Gly Thr Ala Cys Ala
 290 295 300

Thr Ala Gly Ala Cys Thr Gly Thr Cys Cys Ala Gly Ala Thr Ala Thr
 305 310 315 320

Thr Ala Ala Thr Gly Thr Gly Gly Ala Gly Ala Gly Ala Thr Thr Thr
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 370 375 380

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 385 390 395 400

Ala Thr Cys Cys Ala Ala Thr Ala Gly Thr Ala Thr Cys Thr Ala Thr
 405 410 415

Ala Gly Cys Thr Thr Cys Gly Ala Thr Ala Gly Thr Cys Gly Cys Ala
 420 425 430

Ala Ala Ala Gly Thr Thr Gly Ala Ala Ala Gly Gly Gly Ala Thr Thr
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435 HOKAZON01 (AOYB).ST25.txt 440 445

Thr Thr Gly Ala Ala Ala Thr Ala Gly Ala Cys Ala Ala Gly Cys Thr
450 455 460

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465 470 475 480

Gly Ala Cys Thr Thr Thr Gly Gly Gly Ala Gly Thr Gly Gly Ala Thr
485 490 495

Ala Thr Cys Cys Ala Thr Cys Ala Gly Ala Thr Cys Thr Ala Ala Gly
500 505 510

Ala Ala Cys Cys Ala Thr Cys Gly Ala Ala Thr Thr Thr Thr Thr Ala
515 520 525

Ala Gly Gly Ala Gly Thr Thr Ala Thr Cys Thr Ala Ala Gly Gly Gly
530 535 540

Ala Ala Cys Ala Cys Ala Ala Ala Ala Gly Thr Thr Thr Thr Cys Cys
545 550 555 560

Ala Cys Cys Ala Ala Thr Cys Gly Thr Ala Ala Gly Ala Ala Ala Gly
565 570 575

Ala Gly Ala Thr Gly Gly Ala Ala Ala Ala Cys Thr Cys Thr Cys Ala
580 585 590

Ala Ala Ala Gly Ala Thr Thr Gly Ala Cys Ala Ala Cys Gly Cys Ala
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<223> PCR primer RN-F1 for cloning a gene encoding a polypeptide having
a RNaseH activity from Archaeoglobus profundus

<220>
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<222> (18)..(18)

<223> n is a, c, g, or t

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23

<210> 4

<211> 20

<212> DNA

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<210> 5

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<211> 39

<212> DNA

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gcccacgccc tgggatccct aggctacggg tcctttaag

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<210> 10

<211> 560

<212> DNA

<213> Hepatitis B virus

<400> 10

ccttcccatg gctgctcggg tgtgctgcca actggatcct gcgcgggacg tcctttgtct 60

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gtcccttgct ttctctgccg ttccagccga ccacggggcg cacctctctt tacgcggtct 180

ccccgtctgt gccttctcat ctgccggacc gtgtgcactt cgcttcacct ctgcacgtcg 240

catggagacc accgtgaacg gccaccaggt cttgcccaag ctcttacata agaggactct 300

tggactctca gcaatgtcaa caaccgacct tgaggcatatc ttcaaagact gtttgtttaa 360

HOKAZON01 (AOYB).ST25.txt

agactgggag gagttggggg aggagattag gttaaagggtc tttgtactag gaggctgtag	420
gcataaattg gtctgttcac cagcaccatg caactttttc acctctgcct aatcatctca	480
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 <223> Chimeric oligonucleotide primer to amplify a portion of Hepatitis B virus X protein.

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 <222> (18)..(20)
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<400> 11
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<400> 12
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HOKAZON01 (AOYB).ST25.txt
<223> Chimeric oligonucleotide designed as probew1.

<220>
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HOKAZON01 (AOYB).ST25.txt

<221> misc_feature

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